

NOT TO BE TAKEN AWAY.

X

VACCINATION RETURN

ON THE

DISTRICTS OF BIHAR AND ORISSA

FOR THE YEAR

1912-13.

BY

Lieutenant-Colonel E. C. HARE, I.M.S.,
Sanitary Commissioner, Bihar & Orissa.



RANCHI :

PRINTED AT THE BIHAR AND ORISSA GOVERNMENT BRANCH PRESS.

1913.

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No. 3641.

FROM

LIEUTENANT-COLONEL E. C. HARE, I.M.S.,
SANITARY COMMISSIONER, BIHAR AND ORISSA,

TO

THE SECRETARY TO THE GOVERNMENT OF
BIHAR AND ORISSA, MUNICIPAL DEPARTMENT.

Dated Ranchi, the 10th June 1913.

SIR,

I HAVE the honour to submit the Annual Vaccination Return of this Province for the year 1912-13.

I have the honour to be,

SIR,

Your most obedient Servant,

E. C. HARE, *LIEUT.-COLONEL, I.M.S.,*
Sanitary Commissioner, Bihar and Orissa.

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NOTE ON VACCINATION FOR THE YEAR 1912-13.

1. Vaccination is carried on under the local authorities by licensed and paid vaccinators and their work is supervised by the Government staff of Inspectors.

12,93,474 persons were vaccinated, which gives an average of 1,140 to each vaccinator. Of these 25,405 were revaccinated. The percentage of successful primary operations is reported to be 99·59 and of revaccinations 69·33.

The number of operations fell by 19,776 in comparison with the record of 1911-12. The fall was most noticeable in Cuttack (18,212), Champaran (4,944) and Monghyr (4,191). In the two latter places it is attributed to cholera and plague.

2. Statement VI shows the ratio of mortality from small-pox side by side with the number of successful vaccinations during the last decade. It will be noticed that between the year 1904-05 and 1908-09 the death rate steadily rose from ·19 to ·83 per mille and that during the first three years of this period the number of successful vaccinations was remarkably low. It will also be noticed that since 1908-09, when the ratio of mortality reached its height, it has steadily fallen year by year, in proportion as the number of successful operations has increased. At the present time the ratio of mortality (·06) is lower and the number of successful vaccinations is higher than it has been at any time during last decade. This relationship between the figures seems to be too regular to be merely a coincidence, and I think that very probably the successful result is due to the efforts which the Deputy Sanitary Commissioners and vaccination staff in Bengal have been making of recent years to improve vaccination in rural areas. The number of successful operations has, however, fallen during the year under report by over 18,000; which shows that further efforts must be made if the high standard of efficiency of rural vaccination is to be maintained.

Apart from the Native Tributary States, from which no vital occurrences are reported, the mortality from small-pox in most of the districts of the province is negligible and the only extensive area which reports a high death rate includes parts of the districts of Purnea, Bhagalpur, Monghyr and the Sonthal Parganas in the North-East part of the Province.

3. The attention which has been paid to vaccination in rural areas does not seem to have been extended to Municipal areas. A reference to Statement VII shows that the proportion of children successfully vaccinated was in many cases very low compared with the number who were available for vaccination. In the towns of Gaya, Bihar, Dinapur, Chapra, Darbhanga, Monghyr, Jamalpur, Bhagalpur, Cuttack and Hazaribagh the records show that of a total of 11,814 available children only 6,316 or a little over a half were vaccinated. This condition is not at all satisfactory and unless special efforts are made to get the children vaccinated serious outbreaks of small-pox will occur in these towns sooner or later. If the provisions of the Bengal Vaccination Act are properly carried out practically every child born within Municipal limits if it lives, should have been vaccinated by the time it reaches one year of age.

Lanolinated vaccine was supplied to all districts from the Calcutta Depot by an arrangement with the Sanitary Commissioner of Bengal. It was of good quality and the work done with it is reported to have been very satisfactory. The plans and estimates of a Vaccine Depot for the Province of Bihar and Orissa costing Rs. 1,44,000 have been sanctioned and the building is to be put in hand immediately.

E. C. HARE, *LIEUT.-COLONEL, I.M.S.,*

Sanitary Commissioner, Bihar and Orissa.

STATEMENTS.

Statement No. 1.—Showing particulars of Vaccination in the

No.	District.	Population of district according to the census of 1911.	Average population per square mile.	Average number of vaccinators employed throughout the season.	Total number of persons vaccinated.			Average number of persons vaccinated by each vaccinator.	Total.
1	2	3	4	5	6			7	8
	<i>Patna Division.</i>				Male.	Female.	Total.		
1	Patna ... { By paid Vaccinators ... By licensed Vaccinators ... }	1,609,631	7	{ 11 70	3,262 22,012	3,144 20,491	6,406 42,503	582 608	6,353 42,475
2	Gaya ... { By paid Vaccinators ... By licensed Vaccinators ... }	2,159,498	458	{ 12 76	4,309 29,448	4,091 29,265	8,400 58,713	700 772	8,326 58,706
3	Shahabad ... { By paid Vaccinators ... By licensed Vaccinators ... }	1,865,660	426	{ 10 100	2,464 22,954	1,808 20,343	4,272 43,297	427 433	3,625 43,297
	Total of Patna Division { By paid Vaccinators... By licensed Vaccinators ... }	5,634,789	505	{ 33 246	10,035 74,414	9,043 70,099	19,078 144,513	578 587	18,304 144,478
	<i>Tirhut Division.</i>								
4	Saran ... { By paid Vaccinators ... By licensed Vaccinators ... }	2,289,778	853	{ 5 68	1,584 46,061	1,117 37,842	2,701 83,903	540 1,233	2,278 83,903
5	Qehudaran ... { By paid Vaccinators ... By licensed Vaccinators ... }	1,908,385	540	{ 3 47	610 27,532	612 26,414	1,222 53,951	407 1,147	1,222 53,796
6	Muzaffarpur ... { By paid Vaccinators ... By licensed Vaccinators ... }	2,845,514	937	{ 7 60	1,954 49,776	1,676 47,537	3,630 97,313	518 1,622	3,525 97,313
7	Darbhangā ... { By paid Vaccinators... By licensed Vaccinators ... }	2,929,682	875	{ 8 60	1,301 46,441	1,298 44,256	2,599 90,697	325 1,511	2,605 90,851
	Total of Tirhut Division. { By paid Vaccinators... By licensed Vaccinators ... }	9,973,359	791	{ 23 235	5,449 169,815	4,703 156,049	10,152 325,864	441 1,386	9,630 325,863
	<i>Bhagalpur Division.</i>								
8	Monghyr ... { By paid Vaccinators ... By licensed Vaccinators ... }	2,132,893	543	{ 4 41	1,902 40,219	1,779 40,821	3,681 81,040	920 1,976	3,681 81,040
9	Bhagalpur ... { By paid Vaccinators ... By licensed Vaccinators ... }	2,139,318	576	{ 4 52	1,518 37,263	1,099 36,761	2,617 74,024	654 1,423	2,309 73,993
10	Purnea ... { By paid Vaccinators... By licensed Vaccinators ... }	1,989,637	398	{ 3 49	801 29,047	654 27,015	1,455 56,062	485 1,114	1,298 55,876
11	Sonthal Pargana ... { By paid Vaccinators... By licensed Vaccinators ... }	1,882,973	344	{ 8 73	1,197 32,051	683 29,068	1,880 61,119	235 837	1,249 56,985
	Total of Bhagalpur Division. { By paid Vaccinators ... By licensed Vaccinators ... }	8,144,821	437	{ 19 215	5,418 138,580	4,215 133,665	9,633 272,245	507 1,266	8,537 267,894

Primary Vaccination.				Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.	Percentage of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous five years.		Average annual number of deaths from small-pox during previous five years.	
Successful.				Total.	Successful.	Unknown.	Primary.	Re-vaccination.		Primary.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.
Under one year.	Over one and under six years.	Total of all ages.	Unknown.												
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2,516 12,915	3,415 28,214	5,954 42,051	259 135	53 28	51 8	... ...	97·70 99·31	96·22 28·57	} 29·86	{ 4·07 ·31	... ...	} 50,354	31·28	2,039	1·26
3,791 18,921	4,329 38,618	8,221 58,437	74 79	74 7	47 5	17 ...	99·62 99·67	82·45 71·42								} 30·89	{ ·88 ·13	22·97 ...	} 71,345	33·03	2,242	1·03
2,531 28,258	1,019 13,773	3,615 42,908	4 49	647 ...	348 ...	185 ...	99·83 99·21	75·32 ...	} 25·12	{ ·11 ·11	28·59 ...	} 45,542	24·41	1,316	·70
8,838 60,094	8,763 80,605	17,790 143,396	337 263	774 35	446 13	202 ...	99·01 99·43	77·97 13·20								} 28·68	{ 1·84 ·18	26·09 ...	} 167,241	29·68	5,597	·99
1,256 38,144	885 43,410	2,173 82,912	66 554	423 ...	254 ...	104 ...	98·23 99·47	79·62 ...	} 37·26	{ 2·89 ·66	24·58 ...	} 77,342	33·79	1,068	·46
922 22,108	278 31,026	1,221 53,637	1 88	... 155	... 87	... 10	100· 99·86	... ·60							
2,559 47,049	912 49,730	3,500 96,975	10 10	105 ...	77 ...	16 ...	99·57 99·66	86·51 ...	} 35·33	{ ·28 ·01	15·23 ...	} 101,128	35·53	362	·12
1,648 56,100	921 34,444	2,570 90,590	3 25	10 ...	1	98·77 99·74	10· ...								} 31·79	{ ·11 ·02	... ...	} 83,218	28·40	391	·13
6,385 163,401	2,996 158,610	9,464 324,114	80 677	538 155	332 87	120 10	99·09 99·67	79·42 60·	} 33·48	{ ·83 ·20	22·30 6·45	} 319,945	32·07	2,602	·26
1,189 29,979	2,473 50,596	3,662 80,575	99·48 99·41	... ...								} 39·60	{ ... ...	... ...	} 82,698	38·77	884	·41
906 44,654	1,316 29,232	2,258 73,928	37 16	308 31	193 17	8 3	99·38 99·93	64·33 60·71	} 35·71	{ 1·60 ·02	2·59 9·67	} 76,021	35·53	995	·46
842 35,864	412 19,624	1,293 55,449	4 26	157 301	65 135	10 ...	99·92 99·28	44·22 44·78								} 28·61	{ ·45 ·04	7·40 ...	} 57,453	28·87	535	·26
760 36,898	437 19,424	1,207 56,449	20 416	631 4,134	185 2,192	321 944	98·69 99·78	59·67 68·71	} 31·88	{ 1·60 ·73	50·87 22·83	} 64,046	34·01	696	·36
3,697 147,395	4,638 118,876	8,420 266,401	61 458	1,096 4,466	443 2,344	339 947	99·33 99·61	58·52 60·60								} 34·08	{ ·71 ·17	30·93 21·20	} 280,218	34·40	3,110	·28

No.	District.		Population of districts according to the census of 1911.	Average population per square mile.	Average number of Vaccinators employed throughout the season.	Total number of persons vaccinated.			Average number of persons vaccinated by each vaccinator.	Total.
1	2		3	4	5	6			7	8
	Orissa Division.					Male.	Female.	Total.		
12	Cuttack	... { By paid Vaccinators { By licensed Vaccinators ...	2,109,139	577	{ 12 63	5,772 66,957	4,671 61,653	10,443 128,610	870 2,041	8,899 128,530
13	Balasore	... { By paid Vaccinators { By licensed Vaccinators ...	1,055,568	506	{ 1 45	456 36,762	377 30,718	833 67,480	833 1,499	762 66,682
14	Puri	... By paid Vaccinators ...	1,023,402	409	30	30,265	23,267	5,352	178	53,498
15	Angul	... By licensed Vaccinators ...	199,450	118	13	3,627	3,365	6,992	537	6,228
16	Sambalpur	... Dy paid Vaccinators ...	744,193	194	12	13,529	13,016	26,545	2,212	23,902
	Total of Orissa Division { By paid Vaccinators { By licensed Vaccinators ...		5,131,752	873	{ 55 121	50,022 107,346	41,331 95,736	91,353 203,082	1,661 1,678	87,061 201,440
	Chota Nagpur Division									
17	Hazaribagh	... { By paid Vaccinators { By licensed Vaccinators ...	1,288,609	183	{ 5 40	708 23,178	634 21,590	1,342 44,768	268 1,119	1,290 44,608
18	Ranchi	... { By paid Vaccinators { By licensed Vaccinators ...	1,387,516	194	{ 3 44	1,382 24,816	1,166 23,262	2,548 48,078	849 1,092	2,350 47,797
19	Palamau	... { By paid Vaccinators { By licensed Vaccinators ...	687,267	139	{ 1 26	154 12,143	117 11,224	271 23,367	271 808	249 23,077
20	Manbhum	... { By paid Vaccinators { By licensed Vaccinators ...	1,547,576	373	{ 3 41	439 30,905	404 28,815	843 59,720	281 1,456	793 58,858
21	Singhbhum	... { By paid Vaccinators { By licensed Vaccinators ...	694,394	178	{ 2 18	144 10,449	152 9,724	296 20,173	148 1,120	284 19,707
22	Political States of Singhbhum—By licnsed Vaccinators ...		144,934	248	4	2,427	2,214	4,641	1,160	4,496
	Total of Chota Nagpur Division { By paid Vaccinators { By licensed Vaccinators ...		5,750,296	297	{ 14 173	2,827 103,918	2,473 96,829	5,300 200,747	378 1,161	4,965 198,543
	Total Vaccine Department { By paid Vaccinators { By licensed Vaccinators { Total ...		34,635,017	304	{ 144 990 1,134	73,751 594,073 667,824	61,765 552,378 614,143	135,516 1,146,451 1,281,967	941 1,158 1,131	128,497 1,138,218 1,266,715
	Total Dispensary Department ...		.....	...	.....	.....	.....	264	.....	188
	Total Railways ...		.....	...	.....	428	246	674	.....	551
	Total Cooly Depot ...		.....	...	.....	1,095	702	1,797	.....	414
	Total Jails and Cantonments ...		.....	...	.....	10,523	720	11,243	.....	1,532
	GRAND TOTAL ...		34,635,017	304	1,134	679,870	615,811	1,295,945	1,142	1,269,400

Primary Vaccination.				Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated, per 1,000 of population.	Percentage of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous five years.		Average annual number of deaths from small-pox during previous five years.	
Successful.				Total.	Successful.	Unknown.	Primary.	Re-vaccination.		Primary.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.
Under one year.	Over one and under six years.	Total of all ages.	Unknown.												
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
3,115	4,919	8,787	47	1,544	628	312	99·26	50·97	64·90	{	·52 ·44	20·20 20·	126,065	59·77	299 ·14
54,327	57,174	127,446	574	80	23	16	99·60	35·93							
205	549	762	...	71	57	4	100·	85·07	64·46	{	... ·02	5·63 5·38	45,859	43·44	661 ·62
31,352	33,190	66,630	14	798	602	43	99·94	79·73							
17,696	28,275	53,175	50	117	79	22	99·48	83·15	52·03	·09	18·80	53,839	52·60	667	·65
2,671	2,585	5,471	302	764	435	100	92·32	65·51	29·61	4·84	13·08	8,495	49·59	Not under registration.	
17,866	5,746	23,640	132	2,643	2,102	144	99·45	84·11	34·59	·55	5·44	29,885	40·15	57	·07
38,882	39,519	86,364	229	4,375	2,866	482	99·46	73·61	56·47	{	·26 ·44	11·01 9·68	264,143	51·47	1,684 ·32
88,350	92,949	199,547	890	1,642	1,060	159	99·49	71·47							
481	780	1,279	3	52	25	...	99·37	48·07	35·73	{	·23 ·002	... ...	46,094	35·77	462 ·35
25,780	18,402	44,594	1	160	147	...	99·97	91·87							
1,505	804	2,335	4	198	107	...	99·53	54·04	36·36	{	·17 ·08	... ·35	50,402	36·32	632 ·45
38,595	9,109	47,756	4	281	255	1	99·92	91·07							
162	39	232	8	23	13	...	96·66	56·52	33·98	{	3·22 ·62	... ...	24,230	35·25	359 ·52
18,060	4,510	22,824	145	290	290	...	99·52	100·							
379	383	791	1	50	42	7	99·87	97·67	38·96	{	·12 ·10	14· 2·08	61,022	39·43	284 ·18
32,988	24,867	58,756	64	862	729	18	99·93	86·37							
196	54	251	26	12	3	6	97·28	50·	28·99	{	9·15 ·11	50· 5·15	20,518	29·55	106 ·15
13,357	6,088	19,626	23	466	257	24	99·70	58·14							
1,883	2,592	4,494	1	145	87	...	98·97	60·	31·60	·02	...	4,738	32·69	Not under registration.	
2,723	2,060	4,888	42	235	190	13	99·28	59·00	35·63	{	·84 ·11	3·88 1·95	207,004	35·99	1,843 ·32
130,663	65,568	198,050	238	2,204	1,765	43	99·87	81·67							
60,525	57,976	126,926	749	7,118	4,277	1,156	99·35	71·73	36·60	{	·58 ·22	16·24 13·63	...	...	...
589,903	516,608	1,131,508	2,526	8,502	5,269	1,159	99·63	71·75							
650,428	574,584	1,258,434	3,275	15,620	9,546	2,315	99·60	71·74	36·60	·25	14·82	1,238,551	35·76	14,836	·42
114	69	185	2	76	23	26	99·46	46·	...	1·63	34·21	...	...	...	...
430	95	530	...	123	86	5	96·18	72·88	...	...	4·06	...	...	...	...
...	...	...	414	1,383	...	1,383	...	...	...	100·	100·	...	...	...	...
291	897	1,350	89	9,711	5,902	754	93·55	65·89	...	5·80	7·76	...	...	...	...
651,263	575,645	1,260,499	3,780	26,913	15,557	4,483	99·59	69·35	36·84	·29	16·65	...	...	...	...

Summary.

	Total number of persens vaccinated.		Total number of operations per- formed.		Percentage of suc- cessful cases in which the results were known.		Average number of persons vacci- nated by each vaccinator.		Number of children successfully vac- cinated.		Ratio of successful vaccina- tions per 1,000 of population.	Total cost of Department.	Average cost of each successful case.
	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Vac- cin- ators employed.	Persons vaccinated by each vaccinator.	Under 1 year.	One and under 6 years.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
BY SPECIAL STAFF.												Rs. a. p.	Rs. a. p.
Licensed ...	1,137,951	8,500	1,138,218	8,502	99.63	71.75	990	1,158	589,903	516,608	36.84	82,304 15 8	0 1 0
BY DISPENSARY STAFF.													
Municipalities, Jails, Canton- ments, Dispensaries and Railways.	44,532	27,971	44,548	14,471	98.91	65.9	93	634	2 1,820	20,279			
BY OTHER AGENCIES.													
Distriet Board ...	86,551	3,940	86,634	3,940	99.46	75.71	51	1,775	39,540	38,758			
Total ...	1269,034	26,911	1,269,400	26,913	99.59	69.35	1,134	1,142	651,263	575,645			

STATEMENT No. II.

Statement No. II.—Showing the cost of Vaccination in the

Number.	Circle and district.	European supervising officers.	Pay.	Native supervising officers.	Expendi								
					Pay.	Paid vaccinators.	P y.	Licensed vaccinators.	Pay.	Clerks.	Pay.	Peons, etc.	Pay.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
PATNA DIVISION.													
			Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.
1	Patna ... ..		...	5	1,891 8 3	11	1,024 13 3	70	...	...	...	...	...
2	Gaya ... ..		...	5	1,931 3 6	12	936 0 0	76	...	"	...	1	72 0 0
3	Shahabad ... ..		...	5	1,916 7 3	10	636 13 10	100	...	...	...	...	...
	Total of Patna Division	...	...	15	5,649 3 0	33	2,597 11 1	246	...	...	...	1	72 0 0
TIRHUT DIVISION.													
4	Saran ... ..		...	4	1,500 0 0	5	... *	68	40 0 0	...	...	...	...
5	Champanau ... ..		...	3	1,145 0 0	3	228 0 0	47	68 4 0	...	...	...	...
6	Muzaffarpur ... ..		...	4	1,563 1 1	7	783 0 0	60	...	...	...	...	...
7	Darbhanga ... ..		...	4	1,588 8 9	8	638 0 0	60	...	...	...	...	...
	Total of Tirhut Division	...	...	15	5,797 6 10	23	1,649 0 0	235	108 4 0	...	...	...	...
BHAGALPUR DIVISION.													
8	Monghyr ... ..		...	4	1,500 0 0	4	374 0 0	41	22 8 0	...	...	1	36 0 0
9	Bhagalpur ... ..		...	5	2,302 14 8	4	368 8 0	52	33 8 0	...	...	...	...
10	Purnea ... ..		...	4	1,500 0 0	3	354 0 0	40	95 8 0	...	...	...	...
11	Sonthal Parganas ... ..		...	7	3,112 0 10	8	401 10 7	73	...	...	...	...	...
	Total of Bhagalpur Division	...	...	20	8,414 15 6	19	1,408 2 7	215	151 8 0	...	...	1	36 0 0
ORISSA DIVISION.													
12	Cuttack ... ..		...	4	1,470 0 0	12	1,071 5 3	63	...	...	...	...	...
13	Balasore ... ..		...	3	1,232 8 4	1	120 0 0	45	...	...	...	...	...
14	Puri ... ..		...	3	1,146 11 1	30	3,755 1 1	...	...	...	...	...	...
15	Angul ... ..		...	3	2,283 5 4	...	... *	13	...	...	...	...	...
16	Sambalpur ... ..		...	2	900 0 0	12	1,323 7 0	...	...	...	...	2	50 0 0
	Total of Orissa Division	...	...	15	7,032 8 9	55	6,269 13 4	121	...	...	...	2	50 0 0
CHOTA NAGPUR DIVISION.													
17	Hazaribagh ... ..		...	4	1,479 3 1	5	40 0 0	40	...	...	...	...	...
18	Ranchi ... ..		...	4	1,432 0 0	3	342 0 0	41	...	...	...	...	...
19	Palamau ... ..		...	3	1,076 7 3	1	... *	26	...	...	...	...	...
20	Manbhum ... ..		...	3	1,253 0 0	3	... *	41	40 0 0	...	...	...	...
21	Singbhum (Political State of Singbhum).		...	3	1,200 0 0	2	96 0 0	22	...	...	...	...	...
	Total of Chota Nagpur Division	...	...	17	46,440 10 4	14	478 0 0	173	40 0 0	...	...	...	...
	Total of the Vaccine Circle	...	...	82	33,334 12 5	144	12,492 11 0	999	299 12 0	...	...	4	158 0 0
ESTABLISHMENT OF THE DEPUTY SANITARY COMMISSIONER.													
	Deputy Sanitary Commissioner, Bihar and Orissa.	1	9,180	...	...	...	...	...	...	2	963 8 0	3	18 0 0
	Total of the Province	1	9,180	82	33,334 12 5	144	12,492 11 0	990	299 12 0	2	963 8 0	7	342 0 0

*Not furnished.

Districts of Bihar and Orissa during the year 1912-1913.

Bureau.					Paid from—						Number of successful vaccinations and revaccinations.	Average cost of each successful case.
Total pay of Establishment.	Travelling allowance.	Contingencies.		Total cost.	Imperial Fund.	Provincial Fund.	Local Fund.	Municipalities.	Native States.	Total.		
		Cost of lymph.	Other contingencies.									
15	16	17	18	19	20	21	22	23	24	25	26	27
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.		Rs. a. p.
2,526 5 6	998 14 6	...	75 0 0	3,900 4 0	...	2,875 6 9	...	1,024 13 3	...	3,900 4 0	48,064	0 1 3
2,939 3 6	1,251 0 5	...	123 7 0	4,313 10 11	...	3,505 10 11	612 0 0	396 0 0	...	4,313 10 11	66,710	0 1 0
2,553 5 1	1,027 3 7	...	251 15 0	3,832 7 8	...	3,073 10 10	94 0 0	664 12 10	...	3,832 7 8	46,871	0 1 3
8,318 14 1	3,277 2 6	...	450 6 0	12,046 6 7	...	9,254 12 6	706 0 0	2,085 10 1	...	12,046 6 7	1,61,645	0 1 0
1,540 0 0	1,254 3 6	...	75 0 0	2,809 3 6	...	2,809 3 6	...	...	...	2,809 3 6	85,339	0 0 6
1,441 4 0	682 10 0	...	90 6 0	2,214 4 0	...	1,985 10 6	...	228 9 6	...	2,214 4 0	54,945	0 0 7½
2,346 14 1	1,075 6 6	...	96 5 6	3,518 10 1	...	2,735 10 1	...	783 0 0	...	3,518 10 1	100,552	0 0 6
2,226 8 9	997 3 0	...	99 2 8	3,313 14 5	...	2,675 14 5	...	638 0 0	...	3,313 14 5	93,161	0 0 6
7,554 10 10	4,009 7 0	...	351 14 2	11,916 0 0	...	10,266 6 6	...	1,949 9 6	...	11,916 0 0	333,997	0 0 6
1,932 8 0	1,033 0 9	...	155 1 0	3,120 9 9	...	2,617 9 3	...	503 0 6	...	3,120 9 9	84,237	0 0 8
2,704 14 8	803 13 6	...	130 0 0	3,638 12 2	...	3,270 4 2	...	368 8 0	...	3,638 12 0	76,396	0 0 9
1,949 8 0	969 0 0	...	120 1 0	3,038 9 0	...	2,624 8 0	...	414 1 0	...	3,038 9 0	56,942	0 0 9
3,513 11 5	889 6 6	25 9 0	133 9 3	4,562 4 2	...	4,195 13 10	...	366 6 4	...	4,562 4 2	60,033	0 1 2
10,100 10 1	3,695 4 9	25 9 0	538 11 3	14,360 3 1	...	12,708 3 3	...	1,651 11 0	...	14,360 3 1	2,77,608	0 0 9
2,541 5 3	1,229 12 0	...	115 0 0	3,886 1 3	...	2,804 12 0	586 0 0	495 5 3	...	3,886 1 3	1,36,884	0 0 5
1,352 8 4	478 7 0	...	115 0 0	1,945 15 4	...	1,825 15 4	...	120 0 0	...	1,945 15 4	68,051	0 0 5
4,901 12 2	903 11 0	...	114 15 6	5,920 6 8	...	2,165 5 7	3,599 1 1	156 0 0	...	5,920 6 8	53,254	0 1 9
2,283 5 4	1,045 6 0	...	28 4 3	3,356 15 7	...	3,356 15 7	...	...	...	3,356 15 7	5,906	0 9 1
2,273 7 0	402 8 0	...	64 8 0	2,740 7 0	...	1,367 0 0	1,373 7 0	...	...	2,740 7 0	25,742	0 1 8
13,352 6 1	4,059 12 0	...	437 11 9	17,849 13 10	...	11,520 0 6	5,558 8 1	771 5 3	...	17,849 13 10	2,89,837	0 0 10
1,519 3 1	949 11 0	...	79 11 6	2,548 9 7	...	2,548 9 7	...	...	...	2,548 9 7	46,045	0 0 10
1,774 0 0	727 12 0	...	54 3 0	2,555 15 0	...	2,213 15 0	...	342 0 0	...	2,555 15 0	50,453	0 0 9
1,076 7 3	664 3 0	...	45 0 0	1,785 10 3	...	1,785 10 3	...	...	...	1,785 10 3	23,359	0 1 2
1,293 0 0	938 15 6	...	45 0 0	2,276 15 6	...	2,276 15 6	...	...	...	2,276 15 6	60,318	0 0 7
1,296 0 0	723 6 6	...	71 15 3	2,091 5 9	...	1,798 8 9	...	100 10 0	192 3 0	2,091 5 9	24,818	0 1 4
6,958 10 4	4,004 0 0	...	295 13 9	11,258 8 1	...	10,623 11 1	...	442 10 0	192 3 0	11,258 8 1	204,893	0 0 10
46,285 3 5	19,045 10 3	25 9 0	2,074 8 11	67,430 15 7	...	54,373 1 10	6,264 8 1	6,601 2 8	192 3 0	67,430 15 7	1,267,980	0 0 10
10,327 8 1	3,936 14 0	...	609 10 0	14,874 0 1	...	14,874 0 1	...	...	...	14,874 0 1	...	...
56,612 11 6	22,982 8 3	25 9 0	8,084 2 11	82,304 15 8	...	69,247 1 11	6,264 8 1	6,601 2 8	192 3 0	82,304 15 8	1,267,980	0 1 0

B.—DISPENSARY VACCINATION.

Statement No. III.—Showing Dispensary Vaccination in the districts of Bihar and Orissa during the year 1912-13.

District.	Number of dispensaries in each district to which a vaccinator is attached.	Average number of vaccinators attached to dispensaries during the year.	Total number of persons vaccinated.	Average number of persons vaccinated by each vaccinator.	Primary vaccination.					Re-vaccination.			Percentage of successful cases in which the results were known.		Percentage of unknown cases to total cases.	
					Total.	Successful.			Unknown.	Total.	Successful.	Unknown.	Primary.	Re-vaccination.	Primary.	Re-vaccination.
						Under one year.	Over one and under six years.	Total of all ages.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Patna
Gaya
Shahabad
Saran
Champanan
Muzaffarpur
Darbhanga	170	...	170	106	64	170	...	...	...	...	100'00	...	100'00	...
Monghyr
Bhagalpur
Purnea	20	...	15	5	5	12	2	5	2	2	92'30	66'66	13'33	40'00
Sonthal Parganas	74	...	3	3	...	3	...	71	21	24	100'00	44'68	100'00	33'80
Cuttack
Balasore
Puri
Angul
Sambalpur
Hazaribagh
Ranchi
Palamau
Manbhum
Singhbhum
Total	264	...	188	114	69	185	2	76	23	26	99'46	46'00	1'63	34'21

COMPARATIVE STATEMENT No. IV.

Comparative Statement No. VI.—Showing the number of persons primarily vaccinated, and the number

Establishment.				Persons primarily							
				1903-04.		1904-05.		1905-06.		1906-07.	
				Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.
1				2	3	4	5	6	7	8	9
Government	...	...	...	...	...	...	...	...	...	...	...
Dispensaries	...	...	...	2,109	2,018	2,135	2,007	1,735	1,565	1,107	1,088
Municipal	...	...	...	43,270	41,754	40,851	37,280	45,590	41,683	42,540	38,555
Local Funds	...	...	...	87,179	85,050	78,047	76,298	75,156	73,423	76,148	74,194
Licensed Vaccinators	...	...	...	886,838	886,071	980,109	1,018,930	1,009,638	1,012,355	974,710	983,054
Apprentices	...	...	...	...	...	...	...	...	...	...	...
Native States	...	...	...	3,624	3,601	5,363	5,332	5,676	5,633	4,920	4,903
Total	...	...	...	1,023,020	1,018,494	1,106,505	1,139,847	1,137,795	1,134,659	1,099,425	1,101,794

of those persons who were successfully vaccinated, in each of the undermentioned official years.

vaccinated.

1907-08.		1908-09.		1909-10.		1910-11.		1911-12.		1912-13.	
Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.
10	11	12	13	14	15	16	17	18	19	20	21
...
961	806	689	591	586	472	516	415	384	303	188	185
44,882	40,850	48,330	44,769	46,047	43,550	44,961	43,522	45,282	43,212	43,379	42,311
93,113	92,340	96,959	97,104	92,291	91,182	97,189	95,788	96,690	95,323	86,551	85,965
985,176	988,384	1,005,512	994,418	1,053,044	1,052,100	1,102,620	1,110,281	1,111,968	1,123,171	1,133,310	1,126,927
...
4,080	3,987	5,581	5,377	4,269	4,245	4,970	4,956	4,964	4,943	4,641	4,581
1,128,212	1,126,367	1,157,071	1,142,259	1,196,237	1,191,549	1,250,356	1,254,962	1,259,288	1,266,952	1,268,069	1,559,969

Statement No. V.—Showing particulars of vaccination verified by

District.	Total number of persons vaccinated.		Total number inspected.							
			By Deputy Sanitary Commissioner or Civil Surgeons.				By Native Superintendents or other Inspecting Officers.			
			Deputy Sanitary Commissioners.		Civil Surgeons.		District Inspectors.		Sub-Inspectors.	
	Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.
1	2	3	4	5	6	7	8	9	10	11
Patna ...	49,145	792	380	...	2,065	574	9,114	...	21,623	...
Gaya ...	67,032	442	6,702	...	5,672	250	21,103	33	35,034	35
Shahabad ...	46,962	1,099	1,774	...	3,930	...	12,601	...	23,716	...
Saran ...	86,181	423	11,667	...	4,211	319	3,796	...	64,267	...
Champanan ...	55,150	852	...	...	4,555	563	27,755	45	23,623	...
Muzaffarpur ...	100,846	1,211	...	...	11,551	1,057	19,941	...	52,048	...
Darbhanga ...	93,456	339	...	...	5,401	305	23,421	...	44,806	...
Monghyr ...	84,721	313	...	...	2,537	238	21,020	...	49,919	...
Bhagalpur ...	76,320	2,244	...	...	3,798	...	19,246	...	3,900	22
Purnea ...	57,074	463	...	...	2,889	...	19,544	133	18,522	206
Sonthal Parganas ...	58,240	5,197	...	...	5,763	581	17,659	734	25,593	876
Cuttack ...	137,577	1,915	...	...	5,763	251	42,858	413	69,903	296
Balasore ...	67,556	996	...	...	3,597	198	27,921	91	48,723	282
Angul ...	6,228	764	...	...	1,403	116	3,216	248	4,167	284
Puri ...	53,616	508	...	...	1,465	503	21,534	...	33,834	95
Sambalpur ...	23,904	3,037	...	...	3,776	763	11,426	958	7,250	912
Hazaribagh ...	45,898	517	...	...	3,171	175	12,019	41	19,205	66
Ranchi ...	50,443	947	...	...	2,693	239	9,870	142	26,087	417
Palamau ...	23,366	667	...	...	3,666	340	4,415	...	7,804	...
Manbhum ...	59,860	1,891	...	...	1,388	936	24,611	407	32,782	583
Singhbhum ...	19,998	643	...	...	3,679	162	8,076	25	10,437	188
Political States of Singhbhum	4,496	145	...	...	1,434	...	1,432	67	3,252	145
Total for the Province ...	1,268,069	25,405	20,523	...	84,407	7,650	386,758	3,337	625,615	4,407

Inspecting Officers during the year 1912-13.

Percentage of inspection to total number vaccinated.								Percentage of cases found successful to total number inspected.								Percentage of success reported by vaccinators.	
By Deputy Sanitary Commissioners or Civil Surgeons.				By Native Superintendents or other Inspecting Officers.				By Deputy Sanitary Commissioners or Civil Surgeons.				By Vative Superintendents or other Inspecting Officers.					
Deputy Sanitary Commissioners.		Civil Surgeons.		Distriet Inspectors.		Sub-Inspectors.		Deputy Sanitary Commissioners.		Civil Surgeons.		Distriet Inspectors.		Sub-Inspectors.			
Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.	r imary.	Revaccination.
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
.77	...	4.20	72.47	18.54	...	43.99	...	99.47	...	99.03	75.95	98.66	...	98.90	...	99.11	73.77
9.99	...	8.46	56.56	31.48	7.46	52.29	7.91	88.40	...	99.98	101.00	98.37	90.90	99.13	9.14	99.44	71.74
3.77	...	8.36	...	26.83	...	50.50	...	97.74	...	97.43	...	97.90	...	97.68	...	99.56	48.40
13.53	...	4.88	75.41	44.06	...	74.57	...	95.60	...	99.85	79.62	99.35	...	99.60	...	98.72	60.04
...	...	8.25	66.07	50.32	5.28	42.83	...	...	...	99.80	70.33	99.62	33.33	99.63	...	...	...
...	...	11.45	87.28	19.77	...	51.61	...	...	...	100.00	78.71	98.19	...	98.86	...	99.62	24.93
...	...	5.77	89.97	25.06	...	47.94	...	...	...	99.57	60.82	99.50	...	99.25	...	99.68	63.13
...	...	2.99	76.03	24.81	...	58.92	...	...	...	100.00	100.00	99.19	...	99.78	...	99.93	76.03
...	...	4.97	...	25.21	...	51.11	.98	...	...	99.41	...	99.35	...	99.31	36.36	99.84	61.94
...	...	5.06	...	34.24	28.72	32.45	44.49	...	...	97.57	...	99.71	27.72	99.29	46.57	99.73	44.85
...	...	9.89	11.17	30.32	14.12	43.94	16.85	...	...	99.40	60.80	99.50	56.50	97.40	58.30	99.10	49.89
...	...	4.18	13.10	31.15	21.56	50.81	15.45	...	...	4.13	5.16	30.62	3.47	49.98	2.81	98.81	25.16
...	...	5.32	19.87	41.33	9.13	72.12	28.31	...	...	99.24	86.36	99.63	87.91	99.38	86.20	99.91	77.61
...	...	22.52	15.18	51.63	32.46	66.99	37.17	...	...	95.29	52.58	91.64	56.45	91.62	67.86	88.15	63.52
...	...	2.73	99.01	40.16	...	63.10	18.70	...	...	93.51	73.75	98.55	...	98.38	71.57	99.45	62.20
...	...	15.79	25.12	47.79	31.54	30.32	30.02	...	...	94.88	54.65	96.92	80.37	99.71	82.29	98.90	76.16
...	...	6.90	33.84	26.18	7.93	42.27	12.76	...	...	98.77	34.85	97.58	65.85	98.77	75.75	99.90	77.01
...	...	5.33	25.23	19.56	14.99	51.71	44.03	...	...	99.63	38.78	99.42	33.09	99.77	67.86	99.89	74.66
...	...	15.68	50.97	18.89	...	33.39	...	...	...	88.29	83.23	99.54	...	99.47	...	98.89	87.85
...	...	2.32	49.55	41.11	21.52	54.76	30.83	...	...	97.63	72.86	98.84	52.58	98.88	52.31	99.77	77.57
...	...	18.39	25.19	40.38	3.88	52.19	29.23	...	...	99.60	67.90	99.70	48.00	99.53	51.78	99.58	55.15
...	...	31.89	...	31.85	46.20	72.33	100.	...	...	99.90	...	99.90	37.31	99.93	60.00	99.95	60.00
1.61	...	6.65	30.11	30.49	13.13	49.33	17.34	95.30	...	93.77	66.46	95.53	51.80	96.55	5.12	98.94	62.46

Statement No. VI.—Showing side by side the ratios, per 1,000 of population, of Deaths from small-pox and the

District.	1903-04.		1904-05.		1905-06.		1906-07.	
	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.
1	2	3	4	5	6	7	8	9
Patna	·94	37,552	·25	37,699	·32	46,470	·58	50,407
Gaya	·70	62,569	·24	61,724	·07	66,671	·28	72,720
Shahabad	·33	51,275	·10	41,734	·06	52,679	·11	52,483
Saran	·47	57,673	·20	53,626	·06	78,502	·11	74,338
Champaran	·45	51,945	·29	51,071	·13	52,610	·10	49,019
Muzaffarpur	·64	90,272	·27	91,137	·13	95,914	·05	99,054
Darbhanga	·20	94,103	·26	91,019	·10	87,559	·09	80,126
Monghyr	·50	80,825	·20	78,834	·15	86,390	·46	83,081
Bhagalpur	·16	75,477	·16	76,681	·35	78,539	·93	79,717
Purnea	·10	62,264	·35	63,913	·18	60,070	·55	59,430
Santal Parganas	1·29	77,250	·11	77,781	·19	68,024	·51	63,028
Cuttack	·27	68,510	·07	93,806	·04	93,420	·14	77,025
Balasore	·25	25,824	·09	45,018	·36	31,835	·80	37,841
Angul ... ..	...	6,968	...	5,275	...	10,041	...	8,886
Puri	·64	49,129	1·19	39,884	2·84	43,080	4·72	40,682
Sambalpur	·05	37,637	·11	35,750	·06	26,000	·004	25,024
Hazaribagh	·12	43,319	·01	48,291	·01	48,825	·04	43,816
Ranchi	·16	44,726	·03	46,203	·0008	46,295	·02	46,315
Palamau	·67	18,366	·08	16,976	·009	16,713	·02	17,615
Munbhum	·22	40,119	·009	46,896	·007	51,297	·08	54,690
Singhbhum	·56	19,900	·01	18,734	·02	21,041	·009	19,007
Political States of Singhbhum ... ..	...	3,601	...	5,332	...	5,633	...	4,903
Total	·38	1,099,304	·19	127,439	·24	167,608	·39	139,207

number of successful vaccinations during the 10 years ending 1912-13.

1907-08.		1908-09.		1909-10.		1910-11.		1911-12.		1912-13	
Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.
10	11	12	13	14	15	16	17	18	19	20	21
1·69	52,260	2·94	5,3570	1·23	51,589	·30	45,665	·03	48,687	·08	48,763
1·93	73,980	2·68	72,395	·62	74,725	·07	68,104	·07	69,923	·008	66,965
·71	50,939	1·76	53,759	·67	46,311	·04	39,890	·02	36,809	·006	47,086
·29	65,785	·96	74,035	·84	76,930	·07	86,741	·03	83,221	·006	85,339
·38	57,722	·80	56,148	·44	63,172	·02	59,887	·03	60,354	·07	55,486
·09	101,292	·23	101,612	·22	98,808	·06	101,395	·05	102,535	·04	101,405
·11	89,884	·13	75,833	·29	83,005	·07	84,025	·06	83,343	·01	93,546
1·00	80,846	·61	78,958	·30	79,069	·11	85,497	·09	89,123	·08	84,475
1·25	76,312	·15	71,382	·24	77,682	·26	74,438	·43	80,294	·41	77,274
·41	52,054	·08	50,937	·36	61,698	·39	63,167	·24	59,409	·14	56,956
·66	53,350	·71	65,509	·36	67,015	·07	67,446	·03	61,909	·19	60,236
·29	95,087	·28	107,484	·12	134,160	·007	139,487	·002	153,747	·01	137,175
1·25	29,806	·64	35,811	·56	44,340	·41	56,052	·19	63,287	·006	68,271
...	8,283	...	9,022	...	7,602	...	9,353	...	8,207	...	5,906
2·24	55,482	·83	53,920	·16	52,438	·007	53,738	·006	53,619	·02	53,642
·14	27,441	·17	28,265	·04	27,124	·08	33,399	...	33,153	·04	25,955
·23	48,899	1·27	42,294	·42	42,659	·01	50,075	·006	46,544	·02	46,150
·23	53,933	1·48	44,656	·81	46,968	·07	57,541	·02	48,913	·004	51,036
·15	16,241	1·19	27,936	1·42	31,133	·11	21,059	·008	24,782	...	23,683
·31	63,508	·46	62,937	·21	58,160	·01	60,086	·0006	60,420	·005	61,191
·12	18,527	·22	22,721	·42	17,409	·08	26,593	·004	22,341	·05	20,754
...	3,987	...	5,377	...	4,393	...	4,956	...	4,967	...	4,581
·67	1,174,618	·83	1,194,561	·45	1,246,390	·10	1,288,594	·08	1,293,587	·06	1,275,440

Statement No. VII.—Showing the protection afforded to infants in each Town in the Province of Bihar and Orissa during the year 1912-13.

District.	Towns.		Number of births during the year.	Number of deaths amongst children under one year during the year.	Number of successful vaccinations on children under one year during the year ending 31st March 1913.	Date of extension of Vaccination Act to town.
1	2		3	4	5	6
Patna ...	{	Patna ...	2,912	667	1,200	1st October 1884.
		Bihar ...	1,557	245	829	1st April 1887.
		Dinapore ...	846	106	184	28th January 1891.
		Barh ...	299	54	256	1st April 1887.
		Khagole ...	201	46	47	12th July 1910.
	Total ...		5,815	1,118	2,516	
Gaya ...	{	Gaya ...	2,332	732	662	1st January 1883.
		Tikari ...	274	33	230	3rd „ 1891.
		Daudnagar ...	349	61	239	3rd „ „
	Total ...		2,955	826	1,131	
Shahabad ...	{	Arrah ...	981	96	781	20th July 1885.
		Buxar ...	440	58	322	1st April 1887.
		Dumraon ...	499	31	198	1st „ „
		Jagadeshpur ...	360	83	283	20th December 1890.
		Sasaram ...	796	97	849	1st April 1887.
		Bhabua ...	194	21	98	1st „ „
	Total ...		3,270	386	2,531	
Total of the Patna Division ...			12,040	2,330	6,178	
Saran ...	{	Chapra ...	1,675	343	634	1st April 1887.
		Revelganj ...	472	81	284	12th December 1890.
		Siwan ...	525	47	338	1st April 1887.
	Total ...		2,672	471	1,256	
Champaran ...	{	Motihari ...	446	97	210	1st April 1887.
		Bettiah ...	774	160	712	1st „ „
	Total ...		1,220	257	922	
Muzaffarpur ...	{	Muzaffarpur ...	1,301	226	1,449	1st January 1886.
		Sitamarhi ...	334	82	312	1st April 1887.
		Hajipur ...	820	176	543	1st May 1890.
		Lalganj ...	336	87	255	1st April 1887.
	Total ...		2,791	571	2,558	

Statement No. VII.—Showing the protection afforded to infants in each Town in the Province of Bihar and Orissa during the year 1912-13—continued.

District.	Towns.	Number of births during the year.	Number of deaths amongst children under one year during the year.	Number of successful vaccinations on children under one year during the year ending 31st March 1913.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6
Darbhanga	Darbhanga ...	2,394	483	1,022	24th May 1884.
	Roserah ...	377	99	192	3rd January 1891.
	Samastipur ...	216	43	161	25th July 1910.
	Madhubani ...	628	117	273	1st April 1887.
	Total ...	3,615	742	1,648	
Total of the Tirhut Division ...		10,298	2,041	6,385	
Monghyr	Monghyr ...	1,489	266	585	15th November 1882.
	Jamalpur ...	1,033	158	604	15th " "
	Total ...	2,522	424	1,189	
Bhagalpur	Bhagalpur ...	1,394	255	833	15th February 1884. Withdrawn on the 16th October 1895 and re-extended on the 18th August 1898.
	Colgong ...	169	33	73	15th February 1884, Withdrawn on the 16th October 1895 and re-extended on the 19th December 1901.
	Total ...	1,563	288	906	
Purnea	Purnea ...	466	140	312	1st July 1887.
	Kissenganj ...	143	48	157	12th November 1892.
	Katihar ...	284	46	373	8th August 1910.
	Forbesganj ...	89	40	...	19th " 1912.
	Total ...	982	274	842	
Santal Parganas		557	116	315	1st May 1884.
	Sahibganj ...	256	56	151	1st " "
	Deoghar ...	277	49	144	22nd August 1910.
	Madhupur ...	263	56	150	Notifications dated 9th April 1884 and 23rd August 1910.
	Dumka ...				
	Total ...	1,353	227	760	
Total of the Bhagalpur Division		6,420	1,263	3,697	

Statement No. VII.—Showing the protection afforded to infants in each Town in the Province of Bihar and Orissa during the year 1913—concluded.

District.		Towns.	Number of births during the year.	Number of deaths amongst children under one year during the year.	Number of successful vaccinations on children under one year during the year ending 31st March 1913.	Date of extension of Vaccination Act to town.
1		2	3	4	5	6
Cuttack ...	{	Cuttack ...	1,408	318	777	1st September 1884.
		Kendrapara ...	487	128	403	7th February „
		Jajpur ...	396	77	215	7th „ „
		Total ...	2,291	523	1,526	
Balasore	...	Balasore ...	356	86	205	7th February 1888.
Puri ...	...	Puri ...	583	204	201	7th „ „
Sambalpur	...	Sambalpur ...	395	101	201	7th March 1895.
		Total of the Orissa Division...	3,625	914	2,002	
Hazaribagh	{	Hazaribagh ...	720	128	186	1st January 1885,
		Chatra ...	392	77	125	1st August „
		Giridih ...	138	25	170	8th September 1910.
		Total ...	1,250	230	481	
Ranchi	{	Ranchi ...	1,004	86	1,457	1st April 1887.
		Lohardaga ...	238	55	163	25th June 1892.
		Total ...	1,242	119	1,620	
Palamau...	...	Daltonganj ...	135	39	162	9th October 1890.
Manbhum	{	Purulia ...	242	21	245	1st January 1887.
		Raghunathpur ...	103	17	77	19th October 1894.
		Jhalda ...	88	4	57	9th July 1892.
		Total ...	433	42	379	
Singhbhum	...	Chaibassa ...	249	42	196	20th June 1892,
		Total of the Chota Nagpur Division.	3,309	472	2,838	
		Total for the Province ...	35,692	7,020	21,100	

ANNEXURE II.

Provincial Statement.—Showing the different kinds of lymph

District.	Primary										
	Direct from the calf.					With lanoline or glycerine lymph.					
	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.	
1	2	3	4	5	6	7	8	9	10	11	
Patna	11,160	10,862	168	130	97·25	
Gaya	67,032	66,658	221	153	99·44	
Shahabad	16,687	16,564	99	24	99·26	
Saran	26,748	26,111	350	287	97·61	
Champaran	55,150	54,947	89	114	99·63	
Muzaffarpur	10,675	10,597	73	5	99·27	
Darbhanga	93,626	93,330	268	28	99·68	
Monghyr	2,065	2,064	1	...	99·95	
Bhagalpur	31,213	31,147	24	42	99·78	
Purnea	6,330	6,253	69	8	98·78	
Santal Parganas	58,237	57,659	142	436	99·10	
Cuttack	137,991	136,350	585	1,056	98·81	
Balasore	67,556	67,499	43	14	99·91	
Angul	6,228	5,471	455	302	87·84	
Puri	53,699	53,326	288	85	99·45	
Sambalpur	23,065	22,874	90	101	99·12	839	768	40	31	91·53
Hazaribagh	42,115	42,077	35	3	99·90	
Ranchi	50,443	50,388	39	16	99·89	
Palamau	23,366	23,107	111	148	98·03	
Manbhum	59,860	59,724	71	65	99·77	
Singhbhum	19,998	19,884	66	48	99·42	
Political States of Singhbhum	4,496	4,494	1	1	99·95	
Total ..	23,065	22,874	90	101	99·12	845,514	839,280	3,238	2,996	99·26	

URE II.
used and their rates of success during the year 1912-13.

vaccination.					Re-vaccination.														
Arm-to-arm vaccination.					Direct from the calf.					With lanoline or glycerine lymph.					Arm-to-arm vaccination.				
Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
37,985	37,456	265	264	98'60	...	...	...	...	...	785	446	157	182	56'81	7	4	3	...	57'14
...	...	...	...	...	...	...	...	...	...	442	307	42	93	69'45	...	...	...	...	...
30,273	29,991	252	27	99'07	...	...	...	...	...	1,101	532	365	204	48'40	...	...	...	...	...
59,433	58,974	126	333	99'22	...	...	...	...	...	423	254	65	104	60'04	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	852	539	201	112	63'26	...	...	...	...	...
90,171	89,878	278	15	99'67	...	...	...	...	...	1,211	922	240	49	76'14	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	339	214	95	30	63'12	...	...	...	...	...
82,656	82,600	56	...	99'93	...	...	...	...	...	313	238	60	15	76'03	...	...	...	...	...
45,107	45,052	39	16	99'87	...	...	...	...	...	2,244	1,069	922	253	47'63	...	...	...	...	...
50,844	50,767	55	22	99'84	...	...	...	...	...	453	195	248	10	43'04	5	5	...	...	100'00
...	...	...	...	...	...	...	...	...	...	5,126	2,553	1,280	1,293	49'80	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	3,298	829	722	1,747	25'13	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	996	773	174	49	77'61	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	764	435	229	100	56'94	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	508	316	119	83	62'20	...	...	...	...	...
...	...	...	...	...	2,165	1,934	162	69	89'33	872	379	385	108	43'46	...	...	...	...	...
4,324	4,316	7	1	99'81	...	...	...	...	...	640	363	272	5	56'72	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	917	709	237	1	74'86	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	667	586	67	14	87'85	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	1,891	1,467	402	22	77'57	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	643	370	240	33	57'54	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	145	87	58	...	60'00	...	...	...	...	...
400,793	399,037	1,078	673	99'56	2,165	1,934	162	69	89'33	24,660	13,583	6,569	4,508	55'08	12	9	3	...	73'33

